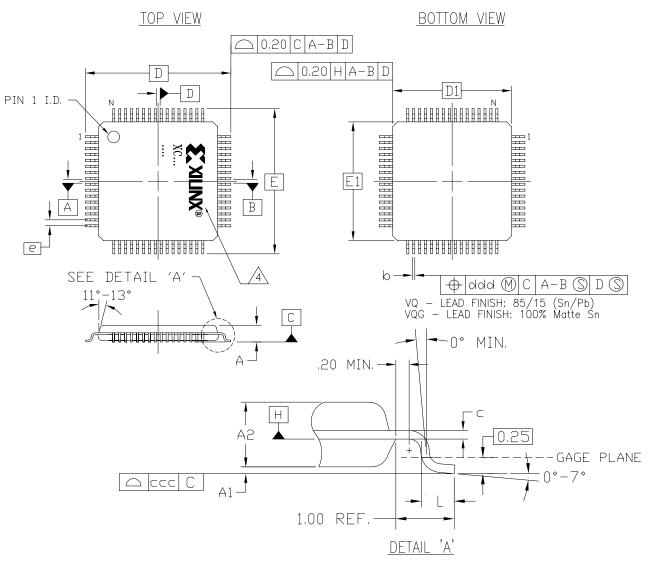
## VQFP (VQ44/VQG44) Package



| VQ/VQG44                       |                  |        |      |  |  |  |  |  |
|--------------------------------|------------------|--------|------|--|--|--|--|--|
| S<br>Y<br>M                    | MILLIMETERS      |        |      |  |  |  |  |  |
| SYMBOL                         | MIN.             | NDW.   | MAX. |  |  |  |  |  |
| Α                              | ~                | ~~     | 1.20 |  |  |  |  |  |
| A <sub>1</sub>                 | 0.05             | ~~     | 0.15 |  |  |  |  |  |
| Αz                             | 0.95             | 1.00   | 1.05 |  |  |  |  |  |
| D/E                            | 12.00 BSC        |        |      |  |  |  |  |  |
| D <sub>1</sub> /E <sub>1</sub> | 10.00 BSC        |        |      |  |  |  |  |  |
| b                              | 0.30             | 0.37   | 0.45 |  |  |  |  |  |
|                                | 0.09             | ~      | 0.20 |  |  |  |  |  |
| е                              | 0.80 BSC.        |        |      |  |  |  |  |  |
| L                              | 0.45             | 0.60   | 0.75 |  |  |  |  |  |
| ccc                            | ~                | $\sim$ | 0.10 |  |  |  |  |  |
| ddd                            | ~                | ~~     | 0.20 |  |  |  |  |  |
| N                              | 44               |        |      |  |  |  |  |  |
| REF.                           | JEDEC MS-026-ACB |        |      |  |  |  |  |  |

| VQ/VQG64         |      |      |     | VQ/VQG100        |      |      |  |
|------------------|------|------|-----|------------------|------|------|--|
| MILLIMETERS      |      |      |     | MILLIMETERS      |      |      |  |
| MIN.             | N□M. | MAX. |     | MIN.             | N□M. | MAX. |  |
| ~~               | ~    | 1.20 |     | X                | ~~   | 1.20 |  |
| 0.05             | 0.10 | 0.15 |     | 0.05             | 0.10 | 0.15 |  |
| 0.95             | 1.00 | 1.05 |     | 0.95             | 1.00 | 1.05 |  |
| 12.00 BSC.       |      |      |     | 16.00 BSC.       |      |      |  |
| 10.00 BSC.       |      |      |     | 14.00 BSC.       |      |      |  |
| 0.17             | 0.22 | 0.27 |     | 0.17             | 0.22 | 0.27 |  |
| 0.09             | ~~   | 0.20 |     | 0.09             | ~~   | 0.20 |  |
| 0.50 BSC.        |      |      |     | 0.50 BSC.        |      |      |  |
| 0.45             | 0.60 | 0.75 |     | 0.45             | 0.60 | 0.75 |  |
| ~~               | ~    | 0.08 |     | X                | ~~   | 0.08 |  |
| ~~               | ~~   | 0.08 |     | X                | *    | 0.08 |  |
| 64               |      |      | 100 |                  |      |      |  |
| JEDEC MS-026-ACD |      |      |     | JEDEC MS-026-AED |      |      |  |
|                  |      |      |     |                  |      |      |  |

## NOTES:

- ALL DIMENSIONS AND TOLERANCES CONFORM TO ANSI Y14.5M-1994.
- 2. DIMENSIONS "D1" AND "E1" DO NOT INCLUDE MOLD PROTRUSIONS. ALLOWABLE MOLD PROTRUSIONS SHALL NOT EXCEED 0.25mm PER SIDE.
- 3. THE TOP OF THE PACKAGE MAY BE SMALLER THAN THE BOTTOM OF THE PACKAGE BY 0.15mm.
- MARK ORIENTATION WITH RESPECT TO PIN-1 I.D.

  IF 2 OR MORE CIRCLES EXIST ON TOP OF THE
  PACKAGE, USE THE SMALLEST CIRCLE AS PIN-1 I.D.

44, 64, and 100-PIN PLASTIC VERY THIN QFP (VQ44/VQG44, VQ64/VQG64, and VQ100/VQG100)

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